



US-09-835- 467 atcgCAaccctTantTnGgcacacngtGgcntngTnucCtTactantccccCAAG  
US-09-835- 459 TGAATATGAAGGCAACACATTAATTACTGCGACCTGTGGCATTTGTTCTTACTTACT  
US-09-835- 445 TGACATGAAGTGCACACACTAATTACTGCGACCTGTGGCATTTGTTCTTACTTACT

consensus tgaca--aag--cac-acac-aattactgscag-tctgscalt-tgttctt--ctta-t

US-09-835- 672 GAGGCAaagTccctgGgcaaggtgctcTgncGATaTtngcatcggaGAActgt  
US-09-835- 528 GAaannccTaaencGaanccnccAAaataaccCTTAaTATCTTggtaaCaaanaca  
US-09-835- 520 TCTCCCAAGGgAAaCTTAAATGAACTTTCAGCAGAAATATCTT  
US-09-835- 506 TCTCCCAAGG AAaCTTAACTGAACTTTCAGCAGAAATAT CTTT

consensus --tccpaag--aaaa-tcttaaa-tgaatctcagCa-At-atcctt---a:-aa---

US-09-835- 733 ggttcgTaaacctTacaagATgsggtTtcccgAAgcccGCaagtcctTtagaactCat  
US-09-835- 589 AAaccttTtngTtaCtAntcctTggaTTTaaCggtcccaatTTaatcngaaCCc  
US-09-835- 568 AAATATCTTGTAGCAAAACAAAGCTTTTGTTCATAGTCTTGGATTTACT  
US-09-835- 552 AAATATCTTGTAGCAAAACAAAGCTTTTGTTCATAGTCTT GGATTTACT

consensus aaatTactctgttagcaaaacaaa-gcttctt-t-tac--agtcctt--gattct-ct

US-09-835- 794 caaaATgaaagcngtcccaacaaagctCTGCaagTnaTngcttaAngNaaatCtngt  
US-09-835- 650 anttctcccccnaacCaatAntacCATTTTACC tTgTaaGcncAgTngtctGcAntc  
US-09-835- 629 GTTCCTAATTTATTTGAAACTCAATTTTACC  
US-09-835- 611 GTTCCTAATTTATTTCTGAACCTCAATTTTCC

consensus gtctcTaatcttattctgaaactc-actTtTcaC-a-t-t-g----a--n-----c-n---

US-09-835- 855 ttaaAgngGatcgaaagaaacntnaaagaggaANgsggaacAAAtctgCaAagaaaa  
US-09-835- 710 cgcahancGancnttcccgngcnccttcccccGAnCcttgsgAAaaAgsgATngtC  
US-09-835- 662  
US-09-835- 644

consensus ---aa-----g-----an-----aaaccaga-cataacta

US-09-835- 916 atnGgnggAAAtcttctgCccctCaagsgaaanaatGcccTgsgsggtaaaagAngCc  
US-09-835- 771 CCCcctTAAaAAaacaacCtccCcnctTtTgGcccaGmTtTtcccgTcAaatCg  
US-09-835- 676 CC atattAA CTTTG TTNT GCACAGTGTc  
US-09-835- 658 CCcctattAA CTTTG TTAT GCACAGTGTt

consensus cccc--ttaa--c-----c-----ctctg-----g---Tnt--gcacag-tgt--

US-09-835- 977 Accctgsggtgctgggat  
US-09-835- 832 AACATAaaag  
US-09-835- 706 gCAATtCA  
US-09-835- 688  
consensus accaat--a--gtgggat

Alignment score = -2355.00  
Scoring matrix:

	19	20	21	22
19	524	-1381	-296	
20		-1522	-333	
21			-741	
22				